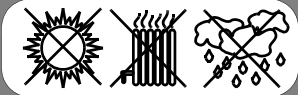




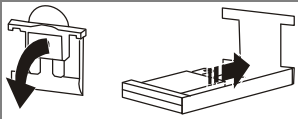
by Schneider Electric

## Place and Power On

- 1 Place the Back-UPS to avoid:
- Direct sunlight
  - Excessive heat
  - Excessive moisture



- 2 Connect the battery by pulling the battery connector handle down, and then pushing it into the unit.



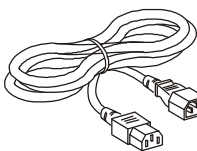
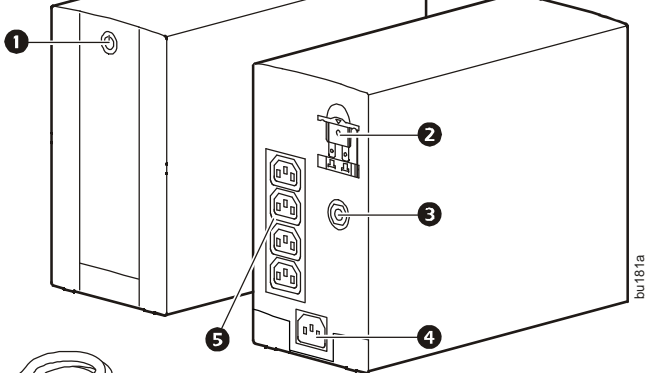
- 3 Plug the Back-UPS BX650CI power cord directly into a wall outlet; not into a surge protector or power strip.

- 4 Press the ON/OFF button to turn on the unit.

The green “Power On” indicator confirms that the Back-UPS is on and ready to provide protection.

The Back-UPS should charge for at least 10 hours to ensure sufficient runtime. The unit is being charged whenever it is connected to AC power, whether the unit is turned ON or OFF.

- 1 ON/OFF button and LED status indicator
- 2 Battery connector
- 3 Circuit breaker
- 4 Input power outlet
- 5 Battery and surge protected outlets



IEC jumper cable for PC connection

## Status Indicators

LED	Audible Alarm	Condition
On	Off	<b>On-line</b> - The Back-UPS is supplying AC power to the connected equipment
	Constant Tone	<b>On Line Overload</b> - The power being used by the connected equipment has exceeded the capacity of the unit. Disconnect some equipment
	Constant beeping	<b>Over-temperature Warning</b> - The unit is overheating and will shut down if the temperature is not lowered. Disconnect some of the connected equipment.
On (Off during 4 beeps)	4 beeps repeated every 30 seconds	<b>On-Battery</b> - The Back-UPS is supplying battery power
Flashing	Rapid Beeping (every 1/2 second)	<b>Low Battery Warning</b> - The Back-UPS has 2 minutes of runtime remaining
	Constant tone	<b>Bad Battery Detected</b> - The battery needs to be charged, or is at end of life. (See <i>Battery Replacement</i> .)
	Chirp every 2 seconds	<b>Charger Warning</b> - The Back-UPS has experienced an internal problem, but is still providing power to the connected equipment. Contact Schneider Electric IT (SEIT) Technical Support
Off	Short beep every 4 seconds	<b>Low Battery Shutdown</b> - During On Battery operation the battery power was almost completely exhausted, and the Back-UPS is waiting for AC power to return to normal
	Constant Tone	<b>On Battery Overload</b> - The connected equipment requires more power than provided by the Back-UPS battery. Unplug devices one at a time to remove overload. If the problem is not corrected, contact SEIT Technical Support
	Constant Tone	<b>Charger Fault</b> - Back-UPS has an internal problem, and is no longer powering the load. Contact SEIT Technical Support
	Constant Tone	<b>Temperature Fault</b> - The Back-UPS has overheated and has shut down.

## Troubleshooting and Service

- Consult the Troubleshooting from the APC by Schneider Electric Web site, [www.apc.com](http://www.apc.com).
- If the problem persists, contact Schneider Electric IT (SEIT) Customer Support through the APC by Schneider Electric Web site, [www.apc.com](http://www.apc.com).
  - Note the model number and serial number and the date of purchase. The model and serial numbers are located on the rear panel of the unit and are available through the LCD display on select models.
  - Call SEIT Customer Support and a technician will attempt to solve the problem over the phone. If this is not possible, the technician will issue a Returned Material Authorization Number (RMA#).
  - If the unit is under warranty, the repairs are free.
  - Service procedures and returns may vary internationally. Refer to the APC by Schneider Electric Web site for country specific instructions.
- Prepare to troubleshoot the problem over the phone. If this is not successful, and the unit is still under warranty, the Technical Support Representative will provide all necessary information to return the unit for replacement.

# Back-UPS™ BX650CI

## User Guide

## Adjust Transfer Voltage and Sensitivity Settings

Automatic Voltage Regulation boosts the AC voltage when it drops below safe levels. This allows the equipment plugged into the unit to operate during low voltage conditions, conserving the battery power in the event of a power cut.

The Back-UPS will switch to battery power if the input voltage level becomes too low for the Automatic Voltage Regulation to compensate, or if the AC power is distorted.

If the Back-UPS switches to battery power too frequently or too infrequently, adjust the transfer voltage and sensitivity settings:

- Ensure the Back-UPS is off. Plug it into AC power.
- Press and hold the ON/OFF button until the LED repeatedly flashes. The unit is now in Program Mode.
- Release the button. The LED will indicate the current setting by flashing once, twice, or three times per second, and emitting audible beeps.
- Press the ON/OFF button within two seconds to change the setting. Continue pressing the button until the desired setting is reached. If the button is not pressed within five seconds, the Back-UPS will exit the Program Mode.

### No-load Shutdown

If the UPS is operating on battery power and detects that the connected equipment is using less than 15 W of energy for more than 15 minutes, it will shut down to conserve energy. When the UPS is reconnected to AC power, the UPS will automatically switch on.

**Note:** Even if the UPS is OFF, it is still protecting connected equipment from power surges.

LED Flashing	Audible Indicator	Voltage Sensitivity Setting	Input Voltage Range	No-load Shutdown	Description
Once per second	None	Low	140-300	Disabled	The Back-UPS will switch to battery power less often.
Once per second	4 beeps per second	Low	140-300	Enabled	The Back-UPS will switch to battery power less often.
Twice per second	None	Medium	140-300	Disabled	Use when the input AC power is normal, without any fluctuation in voltage levels.
Twice per second	4 beeps per second	Medium (factory default)	140-300	Enabled	Use when the input AC power is normal, without any fluctuation in voltage levels.
Three times per second	None	High	150-290	Disabled	The Back-UPS will switch to battery power during any small fluctuation in voltage.
Three times per second	4 beeps per second	High	150-290	Enabled	The Back-UPS will switch to battery power during any small fluctuation in voltage.

## Specifications

Input	Voltage / Frequency	230 VAC / 45-65 Hz
	Brownout Transfer / Over-voltage Transfer	140 VAC, typical / 300 VAC, typical
Output	UPS Capacity (total)	650 VA / 390 W
	Voltage On Battery	230 Vac rms
	Frequency - On Battery	50 Hz, 60 Hz ±1 Hz
	Transfer Time	6ms typical
Protection and Filter	AC Surge Protection	273 joules
	AC Input	Resettable circuit breaker
Battery	Type (maintenance-free)	12V, 7.2 AH
	Average Life	2 - 5 years depending on the number of discharge cycles and environmental temperature
	Typical Recharge Time	8 Hours
Physical	Net Weight	6.2 kg
	Dimensions (H x W x D)	20 cm x 11.5 cm x 25.7 cm

## Battery Replacement

The battery in the Back-UPS BX650CI is not user-replaceable. Contact SEIT Technical Support for a list of authorized service centers near you.

## Warranty

Register your product on-line. <http://warranty.apc.com>

The standard warranty is two (2) years from the date of purchase. SEIT standard procedure is to replace the original unit with a factory reconditioned unit. Customers who must have the original unit back due to the assignment of asset tags and set depreciation schedules must declare such a need at first contact with an SEIT Technical Support representative. SEIT will ship the replacement unit once the defective unit has been received by the repair department, or cross-ship upon the receipt of a valid credit card number. The customer pays for shipping the unit to SEIT. SEIT pays ground freight transportation costs to ship the replacement unit to the customer.

## APC by Schneider Electric IT Customer Support Worldwide

For country specific customer support, go to the APC by Schneider Electric Web site, [www.apc.com](http://www.apc.com).